

© EPO/OC / EPO

PN - JP7094940 A 19950407
 PD - 1995-04-07
 PR - JP19930237096 19930924
 OPD - 1993-09-24
 IC - (A B2)
 H01Q21/26; H01Q19/28
 FI - H01Q19/28; H01Q21/26
 PA - (A)
 NIPPON ELECTRIC CO; NIPPON ELECTRIC ENG
 AP - JP19930237096 19930924
 IN - (A)
 MOCHIZUKI AKIO; YOSHIZAWA EIICHI

© WPI / DERWENT

TI - Crossed type **dipole antenna** for artificial satellite - incorporates **reflective elements** made up of conducting material arranged at end part of **antenna** support strut which reflect electromagnetic waves to **antenna** front part
 AB - J07094940 The crossed type **dipole antenna** incorporates two sets of **dipole elements** (1a-1d) which are arranged mutually perpendicular to the vertical surface of a set of **antenna struts** (2a-2c). The **dipole elements** emit electromagnetic waves towards the end part of **antenna** support strut (2c). At the end part of the **antenna** support strut two sets of **reflective elements** (5a-5d) consisting of conducting material are arranged. The **reflective elements** reflect the electromagnetic waves from the **dipole elements** to the front of **antenna**. A quarter wave length type choke **element** (7) is arranged between the **dipole elements** and the root part of the **antenna** support strut.
 - ADVANTAGE - Improves emission gain and **directivity**. Prevents electromagnetic wave emission to back of **antenna** by providing quarter wave length choke **element**.
 - (Dwg.3/7)
 PR - JP19930237096 19930924
 PN - JP3061990B2 B2 20000710 DW200037 H01Q21/26 007pp
 - JP7094940 A 19950407 DW199523 H01Q21/26 007pp
 PA - (NIDE) NEC CORP
 - (NIDE) NIPPON DENKI ENG KK
 IC - H01Q19/28 ;H01Q21/26
 OPD - 1993-09-24
 AN - 1995-174079 [23]

© PAJ / JPO

PN - JP7094940 A 19950407
 PD - 1995-04-07
 AP - JP19930237096 19930924
 IN - MOCHIZUKI AKIO; others: 01
 PA - NEC CORP; others: 01
 TI - CROSS **DIPOLE ANTENNA**
 AB - PURPOSE: To improve the **omnidirectivity** of radiation gain of a cross **dipole antenna** and to reduce the radiation of a reversely turned **circularly polarized** wave to the side and rear **directions** of the **antenna**.

- CONSTITUTION: Two half-wavelength dipole elements respectively consisting of dipole elements 1a-1d arranged in the vertical face of an antenna supporting column 2A radiate a positively turned circularly polarized wave in a direction to the top part of the column 2A (the front of the antenna). Reflection elements consisting of conductor elements 5a-5d are arranged on the top part of the column 2A to reflect a radio wave applied to the front of the antenna to the side direction of the antenna. A lambda/4 wavelength type choke element is arranged between the elements 1a-1d and the bottom part of the column 2A to interrupt the radiation of radio waves mainly consisting of a reversely turned circularly polarized wave to the rear part of the antenna.
- H01Q21/26 ;H01Q19/28